

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: xx.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-023213**Date Inspected:** 02-May-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai China**CWI Name:** Mr. Liu Huajie**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG Trial Assembly**Summary of Items Observed:**

Flux Cored Arc (FCAW) welding of Weld Joint SEG3007B-166(13AE,FL3 Area Side panel to Stiffener weld,CB Side,PP120 ), and Welder is identified as 067877; ZPMC Quality Control (QC) is identified as Mr. Zhong Yong Gang, The welding variables appeared to comply with the Applicable WPS-B-T-2232-ESAB.

Shielded Metal Arc (SMAW) welding of Weld Joint SEG3007K-020,014(13AE weld, CB Side,PP119-1500 ), and Welder is identified as 067656; ZPMC Quality Control (QC) is identified as Mr. Zhong Yong Gang, The welding variables appeared to comply with the Applicable WPS-B-T-4213-TC-U4b-FCM-1.

Shielded Metal Arc (SMAW) welding of Weld Joint SEG3007Q-071,072(13AE,Floor beam to MEP weld,PP118 ), and Welder is identified as 068924; ZPMC Quality Control (QC) is identified as Mr. Zhong Yong Gang, The welding variables appeared to comply with the Applicable WPS-B-P-2114-FCM-1.

Shielded Metal Arc (SMAW) welding of Weld Joint SEG3006A-001(12CW Bottom panel to Side panel weld, CB Side), and Welding Repair Report(WR)B-WR20862,Welder is identified as 066361; ZPMC Quality Control (QC) is identified as Mr. Hu Mei Gang, The welding variables appeared to comply with the Applicable WPS-345-SMAW-1G(1F)-FCM-Repair-1.

The following Non Destructive Testing (NDT) Inspection carried out as per the ZPMC submitted Notification No. 09004.

Ultrasonic Testing (UT)

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## WELDING INSPECTION REPORT

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This QA Inspector performed UT of approximately 10% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a UT report for this date. The member is identified as OBG 13AE welds, the weld designations reviewed are as follows.

1. SEG3007AE-087,089,091

The following Non Destructive Testing (NDT) Inspection carried out as per the ZPMC submitted Notification No. 09005.

### Magnetic Partical Testing (MT)

This QA Inspector performed MT of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a MT report for this date. The member is identified as OBG 12CW I & T Rib Holdback welds, the weld designations reviewed are as follows.

1. BP3028-001-011,012
2. SP3044-001-022,023
3. SP3043-001-023~026
4. SP3042-001-036,037
5. EP3009-001-015,016
6. DP3061-001-015,016

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.

### Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (15000422372), who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Tharikoppada,Reddy	Quality Assurance Inspector
<b>Reviewed By:</b>	Miller,Mark	QA Reviewer

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